CTNNB1 mutations were associated with improved response with 87.5% CBR (95%CI: 67.6–97.3%) vs 60.0% (95%CI: 43.3–75.1%) in CTNNB1wt. PIK3CA mutations were associated with worse survival (median OS 11 months vs 28 months in PIK3CAwt (P<0.045)).

Conclusions Molecular findings may help predict treatment response to ET. Further exploration of the correlation between mutations and treatment response in a larger prospective population are needed.

Focused plenary: Surgery

**O036/#221 INTRATHORACIC SURGERY AS PART OF PRIMARY CYTOREDUCTION FOR ADVANCED OVARIAN CANCER – GOING TO THE NEXT LEVEL: A MEMORIAL SLOAN KETTERING TEAM OVARY STUDY**

1Ryan Kahn*, 2Erin Mcminn, 3Thomas Boerner, 4Kara Long Roche, 5Oliver Zivanovic, 6Ginger Gardner, 7Yukio Sonoda, 8Roisin O’Cearbhaill, 9Rachel Grisham, 10James Huang, 11Bernard Park, 12Nadeem Abu-Rustum, 13Dennis Chi. 1Memorial Sloan Kettering Cancer Center, Gynecologic Oncology, New York, USA; 2University of Pennsylvania, Obstetrics and Gynecology, Philadelphia, USA; 3Memorial Sloan Kettering Cancer Center, Gynecologic Medical Oncology, New York, USA; 4Memorial Sloan Kettering Cancer Center, Intrathoracic Surgery, New York, USA

Objectives We report on a cohort of patients undergoing intrathoracic cytoreduction as part of primary debulking surgery (PDS), assessing safety and survival outcomes.

Methods We conducted a single center, database review of patients with stage IIIB-IV ovarian carcinoma who underwent intrathoracic cytoreduction as part of PDS at our institution between 01/2001–12/2019. Patients were excluded if they received neoadjuvant chemotherapy.

Results During the study, 179 patients had intrathoracic surgery as part of PDS. This represents 11% (179/1579) of patients who had a PDS at our institution during this time. Supradiaphragmatic/mediastinal lymph nodes were excised in 64% of patients (114/179); mediastinal (not cardiophrenic) nodes 13% (23/179); pleural nodules 7% (12/179); lung parenchyma 1% (2/179), and multiple intrathoracic areas 16% (28/179). Complete gross resection (CGR) was achieved in 73% of patients (127/179), 26% (44/179) had optimal cytoreduction (1–10 mm of residual disease (RD)), and 1% (2/179) underwent suboptimal cytoreduction (>10 mm of RD). Median length of follow-up among survivors was 55 months. Patients with an intrathoracic cytoreduction of carcinoma where CGR was achieved had a median OS of 97 months versus 54 months following an optimal cytoreduction with RD (p = 0.0036). Patients with an intrathoracic cytoreduction where CGR was achieved had a median PFS of 22.1 months versus 14.4 months following an optimal cytoreduction with RD (p = 0.04).

Conclusions Intrathoracic cytoreduction during PDS for advanced ovarian cancer is safe and feasible. CGR can be obtained in patients with intrathoracic disease if properly selected. Resection of all gross RD including intrathoracic disease significantly improves both PFS and OS.

**O037/#239 ARE UTERINE MANIPULATORS HARMFUL IN MINIMALLY INVASIVE SURGERY (MIS) FOR ENDOMETRIAL CANCER? A RETROSPECTIVE COHORT STUDY**

1Maxime Côté*, 2Gabriel Dubois, 3Marie-Claude Renaud, 4Alexandra Sebastianelli, 5Jean Grégoire, 6Ève-Lyne Langlais, 7Narcisse Singbo, 8Marie Plante. 1CHU de Québec, Division of Gynecologic Oncology, Québec, Canada; 2CHU de Québec, Department of Obstetrics and Gynecology, Québec, Canada; 3CHU de Québec, Clinical Research Center, Québec, Canada

Objectives To assess the oncological safety of uterine manipulators in apparent early-stage (FIGO I-II) endometrial cancer treated by MIS.

Methods This is a single center retrospective study including patients who underwent endometrial cancer surgery for apparent early stage disease by either laparoscopy, robotics or laparoscopic assisted vaginal hysterectomy from 11–2012 to 12–2020. Data on manipulator type, isolated tumor cells (ITC), cytology, LVSI, free cancer cells in fallopian tubes (floaters), stage, histology and grade were collected. Primary outcome was cancer recurrence. Secondary outcome was disease specific death. Kaplan-Meier curves and multivariate logistic regression were used for statistical analysis.

Results 935 women with early-stage endometrial cancer were included; 794 (85%) had hysterectomy with uterine manipulation.